My First Canvas

Aug 07, 2025

PROBLEM

Frequent landslides and flash floods in Himachal Pradesh due to heavy rainfall, glacier melt, and human-induced climate changes.

Lack of real-time, predictive tools for river flow monitoring at local levels.

Poor awareness and preparation among locals due to inaccessible early warning systems.

EXISTING ALTERNATIVES

weather forecast

Evacuation team

SOLUTION

AI based alert to inform authorities and other concerned peoples.

Stream lit(web app)based interface for local access

Visualize risk status: SAFE, ALERT, FLOOD WARNING

ML (linear regression) model tracking and predicting real time river runoff.

KEY METRICS

No of station deployed the agent

No of email sent

No of life save

cost of destruction reduced

Model evaluation matrices

UNIQUE VALUE PROPOSITION

A smart AI based real time rain, glacier melt and river monitoring site providing scores and alert to prevent disasters and save life.

An AI temperature, glacier melt and rainfall predictor, tracking level of water discharge.

Accessible using web site

Educating and alarming the concerned areas and citizens.

HIGH-LEVEL CONCEPT

"Saves lives by predicting flood risks from rainfall, temperature, and glacier melt."

UNFAIR ADVANTAGE

Low code deployed can be easily scaled to other areas.

Predictive and educative approach

CHANNELS

Social media awareness camp

Advertisements

Workshops

Ngo's partnership

Github

CUSTOMER SEGMENTS

Local Authorities(Disaster Management, water management)

Local residents

Tourist

Farmers, Climate Researchers

Schools and other active institution

EARLY ADOPTERS

Flood prone regions

Coastal region

low-lying areas

riverine regions

hill stations

COST STRUCTURE

Maintenance and updating cost

Deploying and designing cost

Database and cloud cost

Data collection (surveillance and records)

REVENUE STREAMS

Government funding

Taxation

NGO's grants

Donations or sponserships